

Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 09964100 on January 17, 2002

8 165/104.33 (2 OR, 6 XR)

Class 165 : HEAT EXCHANGE

165/104.11 INTERMEDIATE FLUENT HEAT EXCHANGE MATERIAL
RECEIVING AND DISCHARGING HEAT

165/104.19 .Liquid fluent heat exchange material

165/104.33 ..Cooling electrical device

7 123/557 (1 OR, 6 XR)

Class 123 : INTERNAL-COMBUSTION ENGINES

123/434 CHARGE FORMING DEVICE (E.G., POLLUTION CONTROL)

123/543 .Heating of combustible mixture

123/557 ..Fuel only

4 165/104.26 (1 OR, 3 XR)

Class 165 : HEAT EXCHANGE

165/104.11 INTERMEDIATE FLUENT HEAT EXCHANGE MATERIAL
RECEIVING AND DISCHARGING HEAT

165/104.19 .Liquid fluent heat exchange material

165/104.21 ..Utilizing change of state

165/104.26 ...Utilizing capillary attraction

4 165/41 (4 OR, 0 XR)

Class 165 : HEAT EXCHANGE

165/41 WITH VEHICLE FEATURE

4 165/51 (0 OR, 4 XR)

Class 165 : HEAT EXCHANGE

165/47 STRUCTURAL INSTALLATION

165/51 .Engine

4 174/15.2 (0 OR, 4 XR)

Class 174 : ELECTRICITY: CONDUCTORS AND INSULATORS

174/8 WITH FLUIDS OR VACUUM

174/15.1 .With cooling or fluid feeding, circulating or
distributing

174/15.2 ..By heat pipe

3 29/890.043 (2 OR, 1 XR)

Class 029 : METAL WORKING

29/592 METHOD OF MECHANICAL MANUFACTURE

29/890.03 .Heat exchanger or boiler making
29/890.043 ..Tube joint and tube plate structure

3 122/26 (3 OR, 0 XR)
Class 122 : LIQUID HEATERS AND VAPORIZERS
122/26 FRICTION GENERATOR

3 126/247 (0 OR, 3 XR)
Class 126 : STOVES AND FURNACES
126/383.1 ..Collecting, directing, or shielding feature
for overflow or spatter of the liquid
126/247 .Frictional

3 165/104.21 (0 OR, 3 XR)
Class 165 : HEAT EXCHANGE
165/104.11 INTERMEDIATE FLUENT HEAT EXCHANGE MATERIAL
RECEIVING AND DISCHARGING HEAT
165/104.19 .Liquid fluent heat exchange material
165/104.21 ..Utilizing change of state

3 165/140 (2 OR, 1 XR)
Class 165 : HEAT EXCHANGE
165/140 THREE NON-COMMUNICATING FLUIDS

3 165/148 (1 OR, 2 XR)
Class 165 : HEAT EXCHANGE
165/148 RADIATOR CORE TYPE

3 165/153 (0 OR, 3 XR)
Class 165 : HEAT EXCHANGE
165/148 RADIATOR CORE TYPE
165/152 .Deformed sheet forms passages between
side-by-side tube means
165/153 ..With tube manifold

3 165/154 (2 OR, 1 XR)
Class 165 : HEAT EXCHANGE
165/154 NON-COMMUNICATING COAXIAL ENCLOSURES

3 165/163 (0 OR, 3 XR)
Class 165 : HEAT EXCHANGE
165/157 CASING OR TANK ENCLOSED CONDUIT ASSEMBLY
165/163 .Conduit coiled within casing

3 165/170 (0 OR, 3 XR)

- Class 165 : HEAT EXCHANGE
- 165/168 CONDUIT WITHIN, OR CONFORMING TO, PANEL OR WALL STRUCTURE
- 165/170 .Opposed plates or shells
- 3 165/173 (1 OR, 2 XR)
- Class 165 : HEAT EXCHANGE
- 165/172 SIDE-BY-SIDE TUBULAR STRUCTURES OR TUBE SECTIONS
- 165/173 .With manifold type header or header plate
- 3 165/175 (3 OR, 0 XR)
- Class 165 : HEAT EXCHANGE
- 165/172 SIDE-BY-SIDE TUBULAR STRUCTURES OR TUBE SECTIONS
- 165/173 .With manifold type header or header plate
- 165/175 ..Inlet and outlet header means
- 3 165/76 (1 OR, 2 XR)
- Class 165 : HEAT EXCHANGE
- 165/76 WITH REPAIR OR ASSEMBLY MEANS
- 3 165/80.4 (1 OR, 2 XR)
- Class 165 : HEAT EXCHANGE
- 165/80.1 WITH RETAINER FOR REMOVABLE ARTICLE
- 165/80.2 .Electrical component
- 165/80.4 ..Liquid cooled
- 3 248/232 (0 OR, 3 XR)
- Class 248 : SUPPORTS
- 248/200 BRACKETS
- 248/232 .Radiator
- 3 257/714 (1 OR, 2 XR)
- Class 257 : ACTIVE SOLID-STATE DEVICES
- 257/678 HOUSING OR PACKAGE
- 257/712 .With provision for cooling the housing or its contents
- 257/714 ..Liquid coolant
- 3 361/700 (1 OR, 2 XR)
- Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES
- 361/600 HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE ELECTRICAL COMPONENTS

361/679 .For electronic systems and devices
361/688 ..With cooling means
361/689 ...Fluid
361/699Liquid
361/700Change of physical state

3 361/704 (2 OR, 1 XR)

Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

361/600 HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE
ELECTRICAL COMPONENTS
361/679 .For electronic systems and devices
361/688 ..With cooling means
361/704 ...Thermal conduction

2 24/625 (0 OR, 2 XR)

Class 024 : BUCKLES, BUTTONS, CLASPS, ETC.

24/572.1 SEPARABLE-FASTENER OR REQUIRED COMPONENT
THEREOF (e.g., projection and cavity to complete interlock)

24/591.1 .Including member having distinct formations
and mating member selectively interlocking therewith
24/604 ..Projection having movable connection between
components thereof or variable configuration
24/614 ...Including resiliently biased projection
component or surface segment
24/618Forming total external surface of
projection
24/625Having inserted end formed by oppositely
biased surface segments

2 60/618 (1 OR, 1 XR)

Class 060 : POWER PLANTS

60/597 FLUID MOTOR MEANS DRIVEN BY WASTE HEAT OR BY
EXHAUST ENERGY FROM INTERNAL COMBUSTION ENGINE
60/614 .Having fluid motor motive fluid treating,
controlling or conditioning means
60/616 ..Having means to transfer heat energy between
engine exhaust and motive fluid for fluid motor
60/618 ...Motive fluid is vaporized liquid

2 62/259.2 (1 OR, 1 XR)

Class 062 : REFRIGERATION

62/259.1 STRUCTURAL INSTALLATION
62/259.2 .With electrical component cooling

2 62/402 (1 OR, 1 XR)
Class 062 : REFRIGERATION
62/401 AIR COMPRESSOR, COOLER AND EXPANDER TYPE
62/402 .Motor-type expander

2 62/467 (0 OR, 2 XR)
Class 062 : REFRIGERATION
62/467 REFRIGERATION PRODUCER

2 74/579R (0 OR, 2 XR)
Class 074 : MACHINE ELEMENT OR MECHANISM
74/469 CONTROL LEVER AND LINKAGE SYSTEMS
74/579R .Pitmans and connecting rods

2 123/41.31 (2 OR, 0 XR)
Class 123 : INTERNAL-COMBUSTION ENGINES
123/41.01 COOLING
123/41.31 .With cooling of additional parts or materials

2 123/41.51 (0 OR, 2 XR)
Class 123 : INTERNAL-COMBUSTION ENGINES
123/41.01 COOLING
123/41.51 .Plural radiators and/or tanks in series

2 123/541 (1 OR, 1 XR)
Class 123 : INTERNAL-COMBUSTION ENGINES
123/434 CHARGE FORMING DEVICE (E.G., POLLUTION CONTROL)

123/540 .Cooling of combustible mixture
123/541 ..Fuel only

2 126/91A (0 OR, 2 XR)
Class 126 : STOVES AND FURNACES
126/99R HOT-AIR FURNACES
126/58 .Heating
126/79 ..Smoke and gas returning
126/85R ...Gas
126/91RRadiator type
126/91AElongated radiant tube

2 165/104.11 (0 OR, 2 XR)
Class 165 : HEAT EXCHANGE
165/104.11 INTERMEDIATE FLUENT HEAT EXCHANGE MATERIAL
RECEIVING AND DISCHARGING HEAT

- 2 165/104.14 (0 OR, 2 XR)
Class 165 : HEAT EXCHANGE
165/104.11 INTERMEDIATE FLUENT HEAT EXCHANGE MATERIAL RECEIVING AND DISCHARGING HEAT
165/104.13 .Plural intermediate fluent heat exchange materials
165/104.14 ..Always out of direct contact with each other
- 2 165/152 (1 OR, 1 XR)
Class 165 : HEAT EXCHANGE
165/148 RADIATOR CORE TYPE
165/152 .Deformed sheet forms passages between side-by-side tube means
- 2 165/179 (0 OR, 2 XR)
Class 165 : HEAT EXCHANGE
165/177 TUBULAR STRUCTURE
165/179 .Projecting internal and external heat transfer means
- 2 165/274 (1 OR, 1 XR)
Class 165 : HEAT EXCHANGE
165/200 WITH TIMER, PROGRAMMER, TIME DELAY, OR CONDITION RESPONSIVE CONTROL
165/272 .Control of heat pipe heat transfer characteristics
165/274 ..Control of vapor or liquid flow between evaporator and condenser sections (e.g., by variable restrictions, check valves, etc.)
- 2 165/905 (0 OR, 2 XR)
Class 165 : HEAT EXCHANGE
165/905 MATERIALS OF MANUFACTURE
- 2 165/916 (0 OR, 2 XR)
Class 165 : HEAT EXCHANGE
165/916 OIL COOLER
- 2 237/17 (0 OR, 2 XR)
Class 237 : HEATING SYSTEMS
237/16 COMBINED RADIATOR AND BOILER
237/17 .Fluid fuel
- 2 237/56 (0 OR, 2 XR)

Class 237 : HEATING SYSTEMS
237/56 WATER

2 237/81 (1 OR, 1 XR)
Class 237 : HEATING SYSTEMS
237/81 PROCESSES

2 244/158A (2 OR, 0 XR)
Class 244 : AERONAUTICS
244/158R SPACECRAFT
244/158A .Exterior surface air resistance heat control

2 244/163 (0 OR, 2 XR)
Class 244 : AERONAUTICS
244/158R SPACECRAFT
244/160 .Reentry vehicle
244/162 ..Manned
244/163 ...Environmental control

2 248/49 (0 OR, 2 XR)
Class 248 : SUPPORTS
248/49 PIPE OR CABLE

2 248/65 (2 OR, 0 XR)
Class 248 : SUPPORTS
248/49 PIPE OR CABLE
248/65 .Brackets

2 257/719 (0 OR, 2 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/678 HOUSING OR PACKAGE
257/712 .With provision for cooling the housing or its
contents
257/718 ..Heat dissipating element held in place by
clamping or spring means
257/719 ...Pressed against semiconductor element

2 361/699 (0 OR, 2 XR)
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

361/600 HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE
ELECTRICAL COMPONENTS
361/679 .For electronic systems and devices
361/688 ..With cooling means

361/689 ...Fluid
361/699Liquid

2 361/707 (0 OR, 2 XR)

Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

361/600 HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE
ELECTRICAL COMPONENTS

361/679 .For electronic systems and devices

361/688 ..With cooling means

361/704 ...Thermal conduction

361/707Through support means

2 378/125 (0 OR, 2 XR)

Class 378 : X-RAY OR GAMMA RAY SYSTEMS OR DEVICES

378/119 SOURCE

378/121 .Electron tube

378/125 ..With movable target

2 378/137 (2 OR, 0 XR)

Class 378 : X-RAY OR GAMMA RAY SYSTEMS OR DEVICES

378/119 SOURCE

378/121 .Electron tube

378/137 ..With electron scanning or deflecting means

2 378/144 (0 OR, 2 XR)

Class 378 : X-RAY OR GAMMA RAY SYSTEMS OR DEVICES

378/119 SOURCE

378/143 .Target

378/144 ..Rotary

2 392/352 (0 OR, 2 XR)

Class 392 : ELECTRIC RESISTANCE HEATING DEVICES

392/347 .Convection space heater

392/352 ..Baseboard type

2 392/357 (2 OR, 0 XR)

Class 392 : ELECTRIC RESISTANCE HEATING DEVICES

392/347 .Convection space heater

392/354 ..With intermediate heat absorber

392/357 ...With fluid heat absorber

2 392/403 (0 OR, 2 XR)

Class 392 : ELECTRIC RESISTANCE HEATING DEVICES

392/386 .Vaporizer

392/394 ..Liquid evaporant (e.g., water, etc.)
392/403 ...Container with self-contained evaporant
supply

2 392/423 (0 OR, 2 XR)

Class 392 : ELECTRIC RESISTANCE HEATING DEVICES

392/407 .Radiant heater
392/422 ..With reflector
392/423 ...Elongated reflector

2 429/163 (2 OR, 0 XR)

Class 429 : CHEMISTRY: ELECTRICAL CURRENT PRODUCING
APPARATUS, PRODUCT, AND PROCESS

429/122 CURRENT PRODUCING CELL, ELEMENTS,
SUBCOMBINATIONS AND COMPOSITIONS FOR USE THEREWITH

AND

ADJUNCTS

429/163 .Cell enclosure structure, e.g., housing,
casing, container, cover, etc.